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Curriculum Vitae

Sang Ho Lee

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EDUCATION

- 2015-2021 PhD in Cognitive Psychology (expected in Spring 2021), The Ohio State University
Co-advisors: Mark Pitt and Jay Myung
Dissertation: Facilitatory and Inhibitory Mechanisms in the Spatial Distribution of Attention: An Empirical and Model-Based Exploration
- 2020 M.S. in Applied Statistics, Department of Statistics, The Ohio State University
- 2017 M.A. in Cognitive Psychology, The Ohio State University
- 2015 M.S. in Cognitive Psychology, Korea University, Republic of Korea
- 2013 B.A. double major in Psychology & Economics, Korea University, Republic of Korea

ACADEMIC EMPLOYMENT

- 2021-Present Postdoctoral Fellow, Seoul National University
Advisor: Woo-Young Ahn

RESEARCH SUPPORT

National Research Foundation of Korea: 2022R1I1A1A01066530 6/1/2022 – 5/31/2025
Developing real-time tasks and artificial intelligence frameworks for investigating individual differences in decision making and their neural mechanisms
Role: PI
Amount: 210,000,000 KRW

PUBLICATIONS

Kwon, M., Lee, S. H., & Ahn, W. Y. (2023). Adaptive design optimization as a promising tool for reliable and efficient computational fingerprinting. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 8(8), 798-804.

Lee, S. H., Kim, D., Opfer, J. E., Pitt, M. A., & Myung, J. I. (2022). A number-line task with a Bayesian active learning algorithm provides insights into the development of non-symbolic number estimation. *Psychonomic Bulletin & Review*, 1-14.

Lee, S. H., & Pitt, M. A. (2022). Individual differences in selective attention reveal the nonmonotonicity of visual spatial attention and its association with working memory capacity. *Journal of experimental psychology. General*, 151(4), 749-762.

Lee, S. H., Pitt, M. A., & Myung, J. I. (2018). Computational modeling of cognitive control in a flanker task. *Proceedings of the 40th Annual Meeting of the Cognitive Science Society*, pp. 671-676.

Kim, S., **Lee, S.H.,** & Cho, Y.S. (2015). Control processes through the suppression of the automatic response activation triggered by task-irrelevant information in the Simon-type tasks. *Acta Psychologica*, 162, 51-61.

Lee, S. H., Kim, S. P., & Cho, Y. S. (2015). Self-concept in fairness and rule establishment during a competitive game: a computational approach. *Frontiers in psychology*, 6, 1321.

SUBMITTED MANUSCRIPTS

Lee, S. H., Song, M. S., Oh, M. H., & Ahn, W. Y. (in revision). Bridging the gap between self-report and behavioral laboratory measures: A real-time driving task with inverse reinforcement learning. *In revision in Psychological Science*.

Lee, S. H., & Pitt, M. A. (in revision). Implementation of an online spacing flanker task and evaluation of its test-retest reliability using measures of inhibitory control and the distribution of spatial attention. *In revision in Behavior Research Methods*.

CONFERENCE ORAL PRESENTATIONS (Peer Reviewed)

Lee, S. H., Song, M. S., Oh, M. H., & Ahn, W. Y. (2023) Measuring impulsivity using a real-time driving task and inverse reinforcement learning. *MathPsych / ICCM / EMPG 2023* (Amsterdam, Netherlands).

Lee, S. H. (2022). A tutorial on model evaluation and comparison. *Annual Meeting of the Korean Society for Cognitive and Biological Psychology* (Virtual online conference).

Lee, S. H., Kim, D., Opfer, J., Pitt, M. A., & Myung, J. I. (2019). Active learning for a two-dimensional number-line task. *The 41st Annual Meeting of the Cognitive Science Society* (Montreal, Canada). (6-page submission was selected for \$500 Student Travel Award from the *Cognitive Science Society*.)

Lee, S. H., & Pitt, M. A. (2019). Individual differences in working memory capacity reveal the non-monotonicity of visual spatial attention. *The 27th Conference on Object Perception*,

Visual Attention, and Visual Memory (OPAM: Montreal, Canada).

Lee, S. H., Pitt, M. A., & Myung, J. I. (2018) Computational modeling of cognitive control in a flanker task. *The 40th Annual Meeting of the Cognitive Science Society* (Madison, WI).

CONFERENCE POSTER PRESENTATIONS

Lee, S. H., Song, M. S., Yang, J. Y., Oh, M. H., & Ahn, W. Y. (2022) Learning impulsive behaviors in a real-time task using inverse reinforcement learning. *The Multi-disciplinary Conference on Reinforcement Learning and Decision Making* (Providence, RI).

Lee, S. H., & Pitt, M. A. (2021). Facilitatory and inhibitory mechanisms underlying spatial attention in the flanker task. *Annual Meeting of the Psychonomic Society* (Virtual online conference).

Lee, S. H., Kim, D., Opfer, J., Pitt, M. A., & Myung, J. I. (2020). Machine learning optimizes assessment: New insights for the development of numerosity estimation. *The 42nd Annual Meeting of the Cognitive Science Society* (Virtual online conference).

Lee, S. H., Han, J.H., Kim, H.J., Kim, S.P., & Cho, Y.S. (2014). The fairness model based on EEG hyper-scanning for behaviors in competitive games. *Society for Neuroscience* (Washington, D.C.).

Lee, S. H., & Cho, Y.S. (2014). Computational model of inhibitory cognitive control in cross-task context. *Annual Meeting of the Psychonomic Society* (Long Beach, CA).

Lee, S. H., Kim, S.J., & Cho, Y.S. (2013). Congruency sequence effect between two different Simon congruencies. *The 21st Conference on Object Perception, Visual Attention, and Visual Memory (OPAM: Toronto, Canada).*

ACADEMIC SERVICES

Manuscript review

- Psychological Science
- Behavior Research Methods
- Psychological Review (co-reviewer)
- Biological Psychiatry: Cognitive Neuroscience and Neuroimaging (co-reviewer)
- Decision (co-reviewer)

REFERENCES

Professor Mark Pitt
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Professor Jay Myung

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